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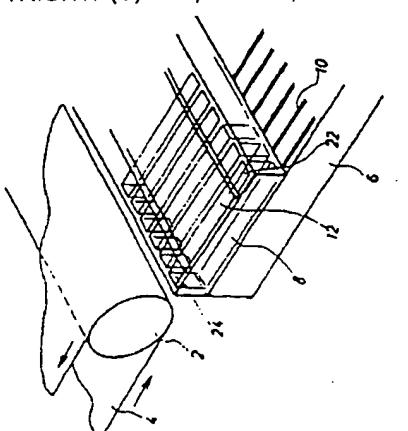
(54) HIGH-SPEED INK JET PRINTER

(57) Abstract:

PURPOSE: To form a simply structured high-speed ink jet printer by keeping intact the relationship between a rotary roller as a common electrode and plural opposed electrodes provided outside the rotary roller and providing ink nozzles away from the rotary roller.

and an electric shock caused by the discharge sends ink droplets flying over a recording paper 4. Thus the printer is capable of printing at high speed despite its simple structure.

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CONSTITUTION: The external circumferential surface of a rotary drum 2 is composed of a metal plate 20 and works concurrently as a common electrode. In the meantime, plural linear conductive paths 10 and opposed electrode plates 14 are formed on a substrate 6 in the same manner as when a printed circuit board is manufactured. On the substrate 6, a rectangular porous glass wall 8 is bonded to form ink nozzles 16, to each of which opposed electrode plates 14 are provided. An electric discharge is generated between the rotary drum 2 as a common electrode and individual opposed electrodes in the ink apertures 16.